

What is claimed is:

1. A purified and isolated nucleic acid sequence of the iniA gene.
2. The nucleic acid sequence of Claim 1 which is wild type or mutated.
3. The nucleic acid sequence of Claim 1 which is genomic DNA, cDNA, or RNA.
4. The nucleic acid sequence of Claim 1 which is obtained from *M. tuberculosis*.
5. The nucleic acid of Claim 4 having the nucleotide sequence contained in Figure 4.
6. A single-stranded nucleic acid probe which specifically hybridizes to a nucleic acid sequence of the iniA gene.
7. The probe of Claim 6 which is wild type or mutated.
8. The probe of Claim 6 which is labeled with a detectable marker.
9. A purified, active protein encoded by the iniA gene.
10. The protein of Claim 9 which is wild type or mutated.
11. The protein of Claim 9 which has the amino acid sequence contained in Figure 5.

12. An antibody immunoreactive with a protein encoded by the iniA gene.

13. The antibody of Claim 12 which is immunoreactive with a wild type or mutated iniA protein.

14. The antibody of Claim 12 which is labeled with a detectable marker.

15. A purified and isolated nucleic acid sequence of the iniB gene.

16. The nucleic acid sequence of Claim 15 which is wild type or mutated.

17. The nucleic acid sequence of Claim 16 which is genomic DNA, cDNA, or RNA.

18. The nucleic acid sequence of Claim 18 which is obtained from *M. tuberculosis*.

19. The nucleic acid of Claim 18 having the nucleotide sequence contained in Figure 4.

20. A single-stranded nucleic acid probe which specifically hybridizes to a nucleic acid sequence of the iniA gene.

21. The probe of Claim 20 which is wild type or mutated.

22. The probe of Claim 20 which is labeled with a detectable marker.

23. A purified, active protein encoded by the iniB gene.

24. The protein of Claim 23 which is wild type or mutated.

25. The protein of Claim 23 which has the amino acid sequence contained in Figure 5.

26. An antibody immunoreactive with a protein encoded by the iniB gene.

27. The antibody of Claim 26 which is immunoreactive with a wild type or mutated iniB protein.

28. The antibody of Claim 26 which is labeled with a detectable marker.

29. A purified and isolated nucleic acid sequence of the iniC gene.

30. The nucleic acid sequence of Claim 29 which is wild type or mutated.

31. The nucleic acid sequence of Claim 30 which is genomic DNA, cDNA, or RNA.

32. The nucleic acid sequence of Claim 29 which is obtained from *M. tuberculosis*.

33. The nucleic acid of Claim 29 having the nucleotide sequence contained in Figure 4.

34. A single-stranded nucleic acid probe which specifically hybridizes to a nucleic acid sequence of the iniC gene.

35. The probe of Claim 34 which is wild type or mutated.

36. The probe of Claim 34 which is labeled with a detectable marker.

37. A purified, active protein encoded by the iniC gene.

38. The protein of Claim 37 which is wild type or mutated.

39. The protein of Claim 37 which has the amino acid sequence contained in Figure 5.

40. An antibody immunoreactive with a protein encoded by the iniC gene.

41. The antibody of Claim 40 which is immunoreactive with a wild type or mutated iniC protein.

42. The antibody of Claim 40 which is labeled with a detectable marker.

43. A vector construct comprising the nucleotide sequence of the iniB promoter inserted into a plasmid.

44. The vector construct of Claim 43 further comprising a reporter gene.

45. The vector construct of Claim 44 wherein the reporter gene is selected from the group consisting of luciferase, green fluorescent protein, beta-galactosidase, beta-glucuronidase and catechol dehydrogenase.

46. A method of determining whether a drug is effective against

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Mycobacterium tuberculosis comprising:

- (a) transforming a vector construct comprising the nucleotide sequence of the iniB promoter inserted into a plasmid into a mycobacterium;
- (b) culturing the mycobacterium;
- (c) treating the cultured cells with the drug; and
- (d) measuring induction of the iniA promoter, the presence of induction indicating the drug is effective against *Mycobacterium tuberculosis*.

47. A drug identified by the method of Claim 46.

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